

Curriculum vitae

Professor Roger Ekins

University College London Medical School

February 1998

CURRICULUM VITAE

Name: Roger Philip EKINS

Place of Birth: Westminster

Professional address: Department of Molecular Endocrinology
University College London Medical School
Mortimer Street
LONDON W1N 8AA, UK

Degrees: BA (Cantab) 1947
MA (Cantab) 1954
PhD (London) 1963
DSc (London) 1990

Present appointments:

University of London: Emeritus Professor of Biophysics
Head of Department of Molecular Endocrinology, UCLMS
Examiner (MD, PhD) for the Board of Studies in Biophysics
NHS: Honorary Consultant, The Middlesex Hospital, London

Past appointments:

- | | |
|------|--|
| 1949 | Lecturer, Department of Physics Applied to Medicine, The Middlesex Hospital Medical School |
| 1961 | Lecturer/Senior Lecturer, Institute of Nuclear Medicine, The Middlesex Hospital Medical School |
| 1968 | Reader and Deputy Director, Institute of Nuclear Medicine, The Middlesex Hospital Medical School |
| 1972 | Professor of Biophysics, University of London |
| 1972 | Director, UK Supraregional Assay Service Centre, The Middlesex Hospital Medical School |
| 1974 | Chairman, Committee of Directors, UK Supraregional Assay Service (Hormones). |
| 1976 | Head, Department of Molecular Endocrinology, The Middlesex Hospital Medical School |
| 1988 | Head, Department of Molecular Endocrinology, University College London Medical School |

Honours and Awards:

- 1972 Society for Endocrinology Medal, Society for Endocrinology, UK
1979 Senior Investigator Award, Clinical Radioassay Society, USA
1979 Distinguished Lecturer Award, American Nuclear Medicine Society
1984 Georg von Hevesy Medal, von Hevesy Foundation, Switzerland
1986 David Curnow Memorial Lecture, Australian ACB
1990 Inaugural Foundation Award, Association of Clinical Biochemists, UK
1990 Honorary membership, European Nuclear Medicine Society
1991 Prince of Wales Award for Innovation, UK
1992 Toshiba Year of Invention Award, UK
1993 Docteur Honoris Causa, Université Claude Bernard, Lyon, France
1993 Distinguished Clinical Chemist Award, International Federation of Clinical Chemistry
1995 Honorary membership, Association of Clinical Biochemists, UK
1996 Veall Medal, British Nuclear Medicine Society
1996 Vikram Sarabhai Memorial Oration Award, Indian Nuclear Medicine Society
1997 Honorary Presidency, European Ligand Assay Society.
1998 Dale Medal, Society for Endocrinology, UK
1998 Edwin F Ullman Award, American Association of Clinical Chemistry

Membership of Learned and Professional Societies:

- Society for Endocrinology, UK
European Thyroid Association
Association of Clinical Biochemists (Honorary), UK
American Association for Clinical Chemistry
American Association for the Advancement of Science
British Nuclear Medicine Society (Honorary)
European Nuclear Medicine Society
European Ligand Assay Society (Honorary President)
Clinical Ligand Assay Society, USA
Thyroid Club, London, UK
Medical Research Society, UK

Consultancies and Appointments with United Nations Agencies:

World Health Organization:

Joint Director of Collaborating Centre on Human Reproduction (until 1982): Department of Molecular Biophysics/Department of Endocrinology, (Chelsea Hospital for Women)
Member of WHO Steering Committee for Special programme of Research, Development and Research Training in Human Reproduction and Programme on Standardisation and Quality Control of Laboratory Procedures

International Atomic Energy Agency:

Establishment of *in vitro* radioassay laboratories in developing countries
Coordination of research on *in vitro* assay methodology

International Teaching:

International Atomic Energy Agency:

Visiting Professor (six months), Chulalongkorn University, Bangkok, Thailand (1966-1967)
Director of Studies, RIA course, Kandy, Sri Lanka (1979)
Introductory RIA course, East Berlin, DDR (1980)
Course Director, "Teach the Teachers Course in RIA", Beijing, China (1985)
Course Co-Director, RIA of Thyroid Related Hormones, Bangkok, Thailand (1992)

World Health Organization:

Courses on "Standardisation, Design and Quality Control of RIA":

Bangkok, Thailand (1976)
San Jose, Costa Rica (1977)
West Berlin, FDR (1977)
Singapore (1978)
Delhi, India (1978)
Moscow, USSR (1980)
Mexico City, Mexico (1981)
Beijing, China (1981)

World Health Organization/Atomic Energy Commission of Argentina:

Director of Studies, RIA course, Buenos Aires (1979).

Italian Ministry of Public Education:

Visiting Professor, University of Catania, Italy (April - June 1985): Courses on Immunoassay in Endocrinology.

British Council:

Director of Studies "Radioisotopic and Labelled Reagent: Microanalytical Methods used in Medical Research and Clinical Diagnosis". International Courses: London: Jan. 1972, Jan. 1974, Oct. 1976, Nov. 1978, Mar. 1980.

Principal Research Interests and Contributions:

1. Ligand/Immuno assay

Independent inventor *ca.* 1957-60 (with Drs. Berson & Yalow, USA) of isotopically-based 'binding assay methods including, *inter alia*, protein binding and radioimmunoassay methods, and later extended to DNA analysis. Recent inventor (1986) of antibody and oligonucleotide microarray technologies now under intensive development with Boehringer Mannheim-Roche

2. Effect of maternal hormones on early foetal brain development

Demonstration of long term effects of maternal hormones on foetal brain development based on a new hypothesis regarding the (unknown) physiological role of hormone binding proteins.

Publications:

Over 400 publications relating to ligand assay methodology and foetal brain development.